ENTRANCE-EXCHANGE STRUCTURE AND METHOD

Background of the Invention

1. Technical Field

The present invention relates generally to the field of activities, and in particular, to a

5   entrance-exchange structure and associated method in conjunction with an activity of uncertain

outcome.

2. Related Art

In a game of chance such as at a casino, a player of the game competes with the house.

The game rules are structured such that the player has a chance of winning the game. The player

10   typically derives satisfaction from the excitement of playing and from not knowing in advance

whether the player will win or lose, and from the possibility of winning a large amount of money.

The player also derives satisfaction from occasionally winning the game. The game would be

enriched for the player, however, if the player could enjoy other satisfactions or advantages from

playing the game.

15   Thus, there is a need for a game-of-chance structure and method that provides the player

with new satisfactions or advantages that add to, or replace, the satisfactions that the player

currently enjoys from playing the game of chance.

Summary of the Invention

The present invention provides an entrance-exchange structure, comprising:

scrip; and

a game of uncertain outcome adapted to be played by at least one player, wherein a house

is adapted to pay a player of the at least one player a takehome in a currency for a win of the

game of uncertain outcome by the player based on betting by the player, and wherein the

5   currency is selected from the group consisting of cash plus scrip and scrip.

The present invention provides a method of executing a entrance-exchange structure,

comprising:

participating in a game of uncertain outcome by a first party selected from the group

consisting of a player and a house, wherein the game of uncertain outcome is being played by the

10   player, wherein a house is adapted to pay the player a takehome in a currency for a win of the

game of uncertain outcome by the player based on betting by the player, and wherein the

currency is selected from the group consisting of cash plus scrip and scrip; and

dealing with the scrip by the first party, wherein if the first party is the player then the

dealing by the player comprises receiving from the house the takehome for the win, and wherein

15   if the first party is the house then the dealing by the house comprises giving to the player the

takehome for the win.

The present invention provides a virtual currency system, comprising scrip and money,

wherein the money is at least one of cash and cash equivalent,

wherein the scrip is generated wholly or in part by a entrance-exchange structure,

20   wherein the entrance-exchange structure comprises a game of uncertain outcome adapted

to be played by a player,

wherein a house is adapted to pay the player a takehome in a currency for a win of the

game of uncertain outcome by the player based on betting by the player, and

wherein the currency is selected from the group consisting of cash plus scrip and scrip.

The present invention provides an entrance-exchange structure, comprising a scrip-to-items exchange rate E^{S-I}_i and a scrip-to-cash exchange rate E^{S-C}_i, such that i is selected from the

5 group consisting of 1, 2, ..., and N:

wherein N is at least 1;

wherein a game of uncertain outcome is adapted to be played by a player;

wherein a house is adapted to pay the player a takehome in a currency for a win of the

game of uncertain outcome by the player based on betting by the player;

10 wherein the currency is selected from the group consisting of cash plus scrip and scrip;

wherein N outside vendors exist;

wherein the player may exchange a portion of the scrip with the outside vendor V_i at the

scrip-to-items exchange rate E^{S-I}_i for at least one item provided by the outside vendor V_i such

that i is selected from the group consisting of 1, 2, ..., and N; and

15 wherein the outside vendor V_i may exchange a percentage of the portion of the scrip for

cash at the scrip-to-cash exchange rate E^{S-C}_i such that i is selected from the group consisting of 1,

2, ..., and N.

The present invention provides a method of executing a entrance-exchange structure,

comprising dealing with a scrip-to-items exchange rate E^{S-I}_i and dealing with a scrip-to-cash

20 exchange rate E^{S-C}_i, such that i is selected from the group consisting of 1, 2, ..., and N:

wherein N is at least 1;

wherein a game of uncertain outcome is adapted to be played by a player;

wherein a house is adapted to pay the player a takehome in a currency for a win of the

game of uncertain outcome by the player based on betting by the player;

wherein the currency is selected from the group consisting of cash plus scrip and scrip;

wherein N outside vendors exist;

5   wherein dealing with the scrip-to-items exchange rate $E^{S \rightarrow I}_i$ comprises permitting, by

outside vendor V_i, the player to exchange a portion of the scrip with the outside vendor V_i at the

scrip-to-items exchange rate $E^{S \rightarrow I}_i$ for at least one item provided by the outside vendor V_i such

that i is selected from the group consisting of 1, 2, ..., and N; and

wherein dealing with the scrip-to-cash exchange rate $E^{S \rightarrow C}_i$ comprises exchanging a

10   percentage of the portion of scrip from the outside vendor V_i for cash at the scrip-to-cash

exchange rate $E^{S \rightarrow C}_i$ such that i is selected from the group consisting of 1, 2, ..., and N.

The present invention provides an entrance-exchange structure, comprising:

scrip; and

an activity of uncertain outcome adapted for at least one participant, wherein a house is

15   adapted to pay a participant of the at least one participant a takehome in a currency for at least

one potential outcome of the activity of uncertain outcome, based on entrance by the participant

in relation to the activity, and wherein the currency is selected from the group consisting of cash

plus scrip and scrip.

The present invention advantageously provides a entrance-exchange structure that

20   provides the player with new satisfactions or advantages that add to, or replace, the satisfactions

that the player currently enjoys from playing an activity of uncertain outcome (e.g., a game of

uncertain outcome). For example, the entrance-exchange structure may be configured so that the

player is, on the average, able to advantageously convert a given amount of cash into relevant scrip and then redeem the relevant scrip for items (e.g., goods, merchandise, real property, different scrip, etc.) from a vendor, wherein the items have a greater monetary value than does the given amount of cash.

5   The entrance-exchange structure of the present invention advantageously enables the house to be profitable while providing said satisfactions to the player.

The entrance-exchange structure of the present invention advantageously generates a virtual currency in the form of the scrip, wherein the virtual currency conveniently facilitates the redemption of the items from the vendor.

10   The activity of uncertain outcome of the present invention may advantageously be a positive-sum game.

Brief Description of the Drawings

FIG. 1 depicts a entrance-exchange structure with a player, a house, and an outside vendor, in accordance with embodiments of the present invention.

15   FIG. 2 depicts a entrance-exchange structure with a player and a house such that the house also functions as a house vendor, in accordance with embodiments of the present invention.

FIG. 3 is a table illustrating a first example of a positive sum game with an outside vendor, in accordance with embodiments of the present invention.

20   FIG. 4 is a table illustrating a second example of a positive sum game with an outside vendor, in accordance with embodiments of the present invention.

FIG. 5 is a table illustrating a first example of a positive sum game with a house vendor, in accordance with embodiments of the present invention.

FIG. 6 is a table illustrating a second example of a positive sum game with a house vendor, in accordance with embodiments of the present invention.

5   **Detailed Description of the Invention**

In a conventional game of uncertain outcome, a player of the game may receive an expected net payoff of X dollars for each dollar bet, wherein X depends on the "odds" (e.g., the probability of winning the game). For example, X = 0.95 means that the player receives an expected net payoff of 95 cents for each dollar bet. Note that the betting establishment is also

10   called the "house." The words "dollar" and "cent" are each used herein generically to represent any recognized cash currency such as the American dollar, American cent, Japanese yen, English pound, etc. Similarly, the words "cash" stands for any recognized cash currency such as the American dollar, American cent, Japanese yen, English pound, etc.

With the present invention, the player receives an *expected* net payoff of C dollars of cash

15   and S units of relevant scrip for each dollar bet such that $0 \leq C \leq 1$ and $S>0$. "Relevant scrip" is defined herein a scrip that is relevant to the situation or purpose being described, since as will be explained *infra* the present invention describes many different types of scrip (bettable scrip, non-bettable scrip, conditional scrip, unconditional scrip, etc.), and for the situation described above, the S units of relevant scrip may comprise some types of scrip but not other types of scrip. In

20   general unless stated otherwise, the word "scrip" is understood herein to mean "relevant scrip." The case of C=1 may be relevant when, *inter alia*, the house has decided to give the player free

relevant scrip and thus executes returning to the player the same amount of cash that the player actually bets. S embodies a "virtual currency" that is exchangeable for items (e.g., goods, services, real property, different scrip, etc.) at various outside vendors, or is exchangeable for items from the house if the house functions as a house vendor, or both. The term "takehome" denotes a net amount (e.g., C and S combined) for each dollar bet that the player takes away after any house commission has been deducted from the payout or separately paid by the player. Generally, "takehome" is the actual amount of currency received from the game after subtracting all commissions, fees and payments owed to a player from entering and playing the game (see *infra* for a formal definition of "entering"). For example, if a player bets one dollar and wins, and if for the dollar bet the cash payout is 90 cents, the house cash commission is 5 cents, the scrip payout is 20 cents, and the house scrip commission is 1 cent, then the player actually receives a takehome (after house commissions have been deducted or paid) of 85 cents in cash and 19 cents in relevant scrip.

For purposes of clarity, the term "outside vendor" denotes a vendor who is not the house, the term "house vendor" denotes a vendor who is also the house, and the generic term "vendor" denotes either an outside vendor or a house vendor. There must be at least one vendor, which means that a house vendor exists, at least one outside vendor exists, or both a house vendor and at least one outside vendor exist. Thus if there are N outside vendors, then the house may be the only vendor such that N=0, the house may be a vendor along with the N outside vendors such that $N \geq 1$, or the house may not be a vendor and the N outside vendors exist such that $N \geq 1$.

Examples of goods include, *inter alia*, food, liquor, automobiles, appliances, clothing and jewelry. Examples of services include, *inter alia*, entertainment, lodging, travel, spa usage,

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Internet rights, and telephone usage. Examples of real property include, *inter alia*, a parcel of

land, a residential building, and a commercial building. If an outside vendor exists, then said

outside vendor may have a relationship with the house such that the outside vendor permits the

holder of the relevant scrip to use the relevant scrip to purchase items offered for sale by the

5   outside vendor, provided that the player is using relevant scrip to purchase items from the

vendor. The scrip is "relevant" for use with a given outside vendor if the scrip may be used to

purchase items from the given vendor. Note that some relevant scrip may be used only at certain

vendors or in accordance with certain conditions, as will be discussed *infra*, and is thus not

necessarily relevant.

10   If a house vendor exists, then the house has agreed to permit the holder of the relevant

scrip to use a relevant portion of the relevant scrip to purchase items from the house. Note that a

player of the game can bet with cash (or cash equivalent such as gaming tokens, chips, credit

card, ATM card, etc.), relevant scrip (e.g., bettable scrip), etc. The bettable scrip may be

absolutely bettable or conditionally bettable. The conditionally bettable scrip is bettable if a

15   condition is satisfied. The condition may comprise, *inter alia*, a vendor-dependent condition

(e.g., the outside vendor must be an outside vendor A or an outside vendor B), a time-dependent

condition (e.g., the bettable scrip is bettable only between date A and date B such as between

December 31, 2001 and April 30, 2002), or a game-dependent condition (e.g., the bettable scrip

must have resulted from winning a roulette game; the bettable scrip can be wagered at only a

20   specific game such as roulette or a slot machine), etc. Note that the scope of the present

invention also includes relevant scrip that is non-bettable.

C and S do not represent a takehome in an individual game, since a player of the game

does not necessarily win each game that the player participates in. For each 100 games played, the player will win, on the average, 100P games where P is the probability of winning each individual game of the 100 games. Note that the 100 games may not be the same type of game. For example, some of the 100 games may be Black-Jack, other games may be Craps, and still other games may be Roulette. In the more general case in which the probability of winning an individual game varies (i.e., P is not constant), P is an average probability; e.g., P is $\Sigma_i/100$ in the preceding example, wherein Σ_i is a summation of P_i from i=1 to i=100, and wherein P_i is the probability of winning game i (i=1, 2, ..., 100). As an example, assume that P has a constant value of 0.10, and that a player receives a takehome of $8 in cash and 2.50 in relevant scrip units for each $1 bet in each game that the player actually wins. If the player starts playing with betting capital of $1000 and bets $100 in each game, then on the average the player will win 1 out of 10 games played and when the player wins, the player will receive $800 in cash and 250 units of relevant scrip as a return on the $100 winning bet. In the 10 games played, on the average the player will lose $900 in the 9 of the 10 games and will win $800 in cash and 250 units of relevant scrip in 1 of the 10 games. In this example, C=0.80 and S=0.25 based on the 9 losing games and on the 1 winning game for the cumulative $1000 of money bet in the 10 games (i.e., C=800/1000 and S=250/1000). The preceding scenario is mathematically equivalent to a situation in which the player always wins (e.g., in every game played) and receives a takehome of $0.80 (i.e., 80 cents) in cash and 0.25 unit of relevant scrip for each dollar bet in each game played. Thus C and S, which are defined as expected average values that result from given winning probabilities P or P_i, could be mathematically simulated by assuming that the player win in every game and that C and S is returned to the player for each dollar bet in every game.

The following example illustrates several aspects of the present invention.

Consider a game of uncertain outcome at a house, wherein the probability of winning and the takehomes to game players are structured such that C= 0.80 and S=0.25. For simplicity, assume the mathematical model in which the player wins every game and receives $0.80 in cash and 0.25

5   units of relevant scrip for each $1 of cash bet. Further assume that the relevant scrip is not bettable. As explained *supra*, this mathematical model is equivalent to the more general case in which the probability of winning an individual game is less than or equal to1. Each such game may be viewed as an iteration of a mathematical sequence, as follows. Assuming that the player starts betting with $1000 and bets with the available dollars of rebettable currency at each

10   iteration, the player will bet the $1000 at the first iteration and receive a return of $800 in cash and 250v of relevant scrip, since 0.80x1000=800 and 0.25x1000=250. The symbol "v" denotes a unit of virtual currency or, equivalently, a unit of relevant scrip. At the second iteration, the player bets the $800 of cash and receives a return of $640 in cash and 200v of relevant scrip, since 0.80x800=640 and 0.25x800=200. At the third iteration, the player bets the $640 of cash

15   and receive a return of $512 in cash and 160v of relevant scrip, since 0.80x640=512 and 0.25x640=160. The iterations form a geometrical series which converges to the result of zero dollars of cash and 1250v units of relevant scrip. Generally, if the player starts betting with D dollars of cash (D = $1000 in the preceding example) and bets in accordance with the geometric series described *supra*, then the player will end up with zero dollars of cash and DxL units of

20   relevant scrip, wherein L is called a "limiting scrip takehome" and is calculated according to L = S/(1-C) if C/S is constant. Thus in the preceding example of sequential betting, L = 1.25 (i.e., 0.25/(1-0.80)) and DxL = 1250v (i.e.,1000 x 1.25). Thus, the preceding example illustrates that

the expected return to the player (i.e., 1250v relevant scrip) may exceed the initial betting capital of the player (i.e., $1000) depending on the exchange rate between cash and scrip as will be discussed *infra*.

The limiting scrip takehome in the preceding example assumes that C/S is constant and that S is completely non-bettable, which represent simplifications that may not always apply. For example, C and S may vary with the type of game played, S may be wholly or partially bettable, and/or C/S may be iteration-dependent during a betting sequence in which the player varies the type of game played or plays a single game in which C/S varies: with time, with iteration, randomly, or with other circumstance. Thus, the limiting scrip takehome L may differ from S/(1-C) if C/S is not constant.

In the preceding example, the player started with $1000 in cash and ended up with 1250v of relevant scrip. The player can redeem the relevant scrip at any vendor that exists (e.g., an outside vendor that exists or a house vendor that exists). An outside vendor may permit the holder of the relevant scrip to use the relevant scrip to purchase items offered for sale by the outside vendor at a scrip-to-items exchange rate $E^{S \rightarrow I}$, wherein $E^{S \rightarrow I}$ is a dollar value of 1 unit of relevant scrip when the relevant scrip is used to purchase items offered for sale by the outside vendor at retail value (e.g., at a market price that a willing buyer would pay for the item(s)). As a first example, if $E^{S \rightarrow I} = 1.10$ at a given outside vendor then the 1250v of relevant scrip has a dollar value of $1375 (i.e., 1.10x1250) for purchasing items offered for sale by the given outside vendor. As a second example, if $E^{S \rightarrow I} = 1.00$ at a given outside vendor then the 1250v of relevant scrip has a dollar value of $1250 (i.e., 1.00x1250) for purchasing items offered for sale by the given outside vendor. As a third example, if $E^{S \rightarrow I} = 0.90$ at a given outside vendor then the 1250v

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of relevant scrip has a dollar value of $1125 (i.e., 0.90x1250) for purchasing items offered for sale by the given outside vendor. As a fourth example, if $E^{S \to I} = 0.80$ at a given outside vendor then the 1250v of relevant scrip has a dollar value of $1000 (i.e., 0.80x1250) for purchasing items offered for sale by the given outside vendor. As a fifth example, if $E^{S \to I} = 0.70$ at a given outside vendor then the 1250v of relevant scrip has a dollar value of $875 (i.e., 0.70x1250) for purchasing items offered for sale by the given outside vendor. In the preceding examples, the game of uncertain outcome is "profitable" for the player if $E^{S \to I} > 0.80$ and is "unprofitable" for the player if $E^{S \to I} < 0.80$, but is neither profitable nor unprofitable for the player if $E^{S \to I} = 0.80$.

A house vendor may permit the holder of the relevant scrip to use the relevant scrip to acquire items from the house at a scrip-to-items exchange rate $E^{S \to I}_0$, wherein $E^{S \to I}_0$ is a dollar value of 1 unit of relevant scrip when the relevant scrip is used to acquire items from the house at retail value (e.g., at a market price that a willing buyer would pay for the item(s)). The preceding five examples involving an outside-vendor with the associated scrip-to-items exchange rate $E^{S \to I}$ are applicable to a house vendor with the associated scrip-to-items exchange rate $E^{S \to I}_0$, wherein $E^{S \to I}_0$ is analogous to $E^{S \to I}$.

In general, $E^{S \to I}$ may be outside vendor-dependent, since different outside vendors may have a different relationships with the house. For example, a relationship between a first outside vendor and the house may be independent of a relationship between a second outside vendor and the house. Thus if there are N outside vendors ($N \geq 1$) who have relationships with the house, then the scrip-to-items exchange rate for outside vendor V_i may be $E^{S \to I}_i$, wherein S units of relevant scrip is worth C_i dollars of cash if used to purchase items from the outside vendor V_i, and wherein $C_i = S \, E^{S \to I}_i$ ($i=1, 2, ..., N$). If the expected takehome for each dollar bet is C dollars

and S units of relevant scrip, then the "value" of the expected takehome associated with outside vendor V_i is $C + C_i$. Since $C_i = S\ E^{S-I}{}_i$, the quantity $C + C_i$ is equal to $C+S\ E^{S-I}{}_i$, and $C + C_i$ represents the "expected return" to the player in relation to outside vendor V_i. Thus, the expected return in relation to outside vendor V_i is "profitable" to the player if $C + C_i > 1$, and is

5   unprofitable to the player if $C + C_i < 1$. Generally, the game of uncertain outcome may be profitable to the player for some outside vendors and unprofitable for other outside vendors. As a special case, relationships between outside vendors and the house may exist such that the expected return to the player is profitable to the player for all outside vendors (i.e., $C + C_i > 1$ each i of i = 1, 2, ..., N).

10   The are various types of such relationships between an outside vendor and the house. For example, a given outside vendor and the house may have a contractual relationship that establishes the scrip-to-items exchange rate associated with the given outside vendor. As another example, an outside vendor may be a third-party vendor that has no contractual relationship with the house. The house may be unaware of the existence of the third-party vendor, and the third-

15   party vendor may be unaware of the existence of the house. The third-party vendor may be willing to exchange relevant scrip for items that the third-party vendor possesses or has access to. The third-party vendor may have no relationship with the house having to do with exchanging relevant scrip for items, and the third-party vendor may have no relationship with the house that would require the house to exchange for cash relevant scrip possessed by the third-party vendor.

20   Thus the third-party vendor is independent of the house and operates within the framework of a virtual currency system (to be described *infra*) such that the third party vendor may exchange relevant scrip for cash, cash for relevant scrip, items for relevant scrip, and/or relevant scrip for

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items, or relevant scrip for different relevant scrip.

For a house vendor, S units of relevant scrip is worth C_0 dollars of cash if used to acquire items from the house. If the expected takehome for each dollar bet is C dollars and S units of relevant scrip, then the "value" of the expected takehome associated with house vendor is $C + C_0$. Since $C_0 = S\ E^{S-I}{}_0$, the quantity $C + C_0$ is equal to $C + S\ E^{S-I}{}_0$, and $C + C_0$ represents the "expected return" to the player in relation to house vendor. Thus, the expected return in relation to the house vendor is "profitable" to the player if $C + C_0 > 1$, and is unprofitable to the player if $C + C_0 < 1$. As a first special case, the house may structure the entrance-exchange structure such that: the expected return in relation to the house vendor is profitable to the player; and the expected return in relation to outside vendors is profitable to the player for each outside vendor that exists. As a second special case, the house may structure the entrance-exchange structure such that: the expected return in relation to the house vendor is unprofitable to the player; and the expected return in relation to outside vendors is profitable to the player for each outside vendor that exists. As a third special case, the house may structure the entrance-exchange structure such that: the expected return in relation to the house vendor is profitable to the player; and the expected return in relation to N existing outside vendors is profitable to the player for each of M outside vendors such that $0 \leq M < N$ and $N \geq 1$. As a fourth special case, the house may structure the entrance-exchange structure such that: the expected return in relation to the house vendor is unprofitable to the player; and the expected return in relation to N existing outside vendors is profitable to the player for each of M outside vendors such that $0 \leq M < N$ and $N \geq 1$.

Simplification (especially for the holder of the relevant scrip) would be gained if E^{S-I} has a constant value K (e.g., K=1.10) independent of outside vendor, and additional simplification

would be gained if K = 1. For the special case of $E^{S-I} = K = 1$, S units of relevant scrip is worth

exactly S dollars if used to purchase items (e.g., goods, services, real property, etc.) offered for

sale by the outside vendor. Said simplification of having E^{S-I} equal to the constant value K may

be at the expense of having relationships between individual outside vendors and the house

tailored to the needs and requirements of individual outside vendors. Accordingly, the scope of

the present invention includes both cases: i.e., the case in which E^{S-I} is variable and outside

vendor dependent, and the case in which E^{S-I} is constant and outside vendor independent.

An outside vendor V_i who acquires relevant scrip in the aforementioned manner may

redeem the relevant scrip from the house for dollars of cash in accordance with a scrip-to-cash

exchange rate E^{S-C}_i, wherein each unit of relevant scrip may be redeemed for E^{S-C}_i dollars of

cash. Thus if $E^{S-C}_i = 0.70$, then 1250v of relevant scrip could be redeemed by the outside vendor

V_i for $875 (i.e., 0.70 x 1250).

As an example of how the present invention may benefit the player, house, and outside

vendor, assume as before that C= 0.80 and S=0.25, and that the player starts betting with $1000

and converts the $1000 to 1250v of relevant scrip based on the limiting scrip takehome L of 1.25.

If $E^{S-I}_i = 0.90$ for the outside vendor V_i, then the player redeems the 1250v relevant scrip for

$1125 (i.e., 0.90 x 1250) of items (e.g., goods, services, real property, etc.) from the outside

vendor V_i and thus gains $125 on the $1000 investment, which represents a 12.5% return on the

$1000 investment. If $E^{S-C}_i = 0.70$ for the outside vendor V_i, then the outside vendor V_i redeems

the 1250v relevant scrip, which the outside vendor received from the player, for $875 (i.e., 0.70 x

1250) from the house. If the outside vendor V_i paid a wholesale price of $675 for the item(s)

sold to the player, which represents a 66.7% markup to the retail price of $1125, then the outside

vendor V_i achieves a profit of $200 (i.e., $875 - $675), which represents a percent profit of

29.6% (i.e., 100 x 200/675). Thus the fractional markup U_i from wholesale price to retail price

for outside vendor V_1 is 0.667 (i.e., (1125-675)/675)), wherein U_i is defined as (retail price -

wholesale price)/wholesale price. Lastly, the house received $1000 from the player and returned

5    $875 to the outside vendor V_i for a dollar profit of $125 and a percent profit of 14.3% (i.e.,

$125/$875) for the house. Thus, the present invention may be beneficial to all parties: the player,

the house, and the outside vendor, as illustrated in FIG. 3 which will be described *infra*.

Since the fractional markup U_i from wholesale price to retail price may vary among

outside vendors, especially among outside vendors of different industries or markets, an outside

10   vendor-dependence of $E^{S \to I}_i$ and $E^{S \to C}_i$ on outside vendor V_i provides flexibility that enables all

outside vendors to profit from the present invention. For example, agreements, if any, between

the house and outside vendors may be individually negotiated between the house and the outside

vendors to arrive at bargained-for values of $E^{S \to I}_i$ and $E^{S \to C}_i$ for each outside vendor V_i (i=1, 2,

..,N).

15   As stated *supra*, the scope of the present invention also includes the possibility that the

house functions as a vendor (i.e., the house is a house vendor) by acquiring a capability to

provide items (e.g., goods, services, real property, etc.) to the player in exchange for relevant

scrip at a scrip-to-items exchange rate $E^{S \to I}_0$, which is analogous to the scrip-to-items exchange

rate $E^{S \to I}_i$ relating to the outside vendors V_i as discussed *supra*. See FIG. 2, to be described *infra*,

20   for a depiction of the house in the role of a house vendor. For example, the house may purchase

the goods at a bargained-for price and thus have such items available to be exchanged for

relevant scrip by the player. The bargained-for price may be lower than the market price for an

item; e.g., the house may purchase items in bulk quantities and thus bargain for a discount due to the bulk purchase. Accordingly, a fractional markup U_0 can be defined for the house vendor, wherein U_0 is calculated as a fractional increase from said bargained-for price actually paid by the house vendor to the retail value (e.g., market price) of a single item. The house vendor can

5   exploit U_0 in various ways such as, *inter alia*, using U_0 to generate or increase profitability in relation to paying the player relevant scrip, or relevant scrip plus cash, when the player wins the game of uncertain outcome. The house may also exploit U_0 by manufacturing items which may be exchanged for relevant scrip; e.g., said manufacturing of items avoids a middleman which increases profitability for the house.

10   To illustrate an advantage of the present invention when the house functions as a house vendor, consider the previous example of assuming as before that C= 0.80 and S=0.25, and that the player starts betting with $1000 and converts the $1000 to 1250v of relevant scrip based on the limiting scrip takehome L of 1.25. If $E^{S-I}_0 = 0.90$ for the house vendor, then the player redeems the 1250v relevant scrip for $1125 (i.e., 0.90 x 1250) of items (goods, services, real

15   property, different scrip, etc.) from the house vendor and thus gains $125 on the $1000 investment, which represents a 12.5% return on the $1000 investment. If the fractional markup U_0 is 0.50 (i.e., 50% markup), then the house vendor has paid $750 for the $1125 retail value of the items redeemable to the player with the 1250v of relevant scrip. Since the house received $1000 from the player and paid only $750 for the items redeemed to the player by the house, the

20   house realize a dollar profit of $250 and a percent profit of 33.3% (i.e., $250/$750). Thus, the present invention is beneficial to both the player and the house when the house functions as a house vendor.

FIG. 1 depicts a entrance-exchange structure **10**, as described *supra*, in accordance with embodiments of the present invention. The word "exchange" in "entrance-exchange" denotes any of the exchanges of the present invention such as exchanges between relevant scrip and cash, cash and items, etc. The entrance-exchange structure **10** includes a house **30**, a player **20**, an outside vendor **40**, and a game of uncertain outcome **50**. The scope of the present invention includes the case in which the outside vendor **40** exists, as well as the case in which the outside vendor **40** does not exist.

The game of uncertain outcome **50** comprises at least one of: a game of chance and a game of skill, or a combination thereof. A game of chance may include, *inter alia*: a casino game such as Black-Jack, Craps, Roulette, or a slot machine; horse racing; dog racing; a card game such as poker; a sporting event such as football; a lottery; etc. A game of skill in the context of the game of uncertain outcome **50** may include, *inter alia*: a game of chess, a card game of skill such as bridge, a game in which the player **20** is required to correctly solve a mathematical problem in a given amount of time; a game in which the player **20** is required to drive a golf ball at least a given distance; a competitive carnival game; billiards; darts; pool; a sporting event such as swimming, basketball, skeet ball; a track competition in which the winner runs a given distance in less time than the other competing players; a game in which the player **20** is required to correctly answer multiple choice questions on any topic (e.g., music, economics, language, movie stars, sports heroes, geography, etc.); testing the result of completely learning a task; etc. For the present invention, a "contest" is within the scope of "game" in a game of uncertain outcome. For example, several fishermen may compete in a contest, wherein the winner of the contest is the fisherman who catches the largest number of fish within a given time

interval on a given date.

The player **20** stands for at least one player who, in playing the game of uncertain outcome **50**, may be engaged in betting or in another activity subject to an uncertain outcome. The game of uncertain outcome may include one or more other of such players **20**. Each such player **20** may be a person, an entity (e.g., an organization such as a corporation, church), etc.

The house **30** may comprise a casino (e.g., a conventional casino, a computer casino), a race track, an person, a plurality of persons, a business entity (e.g., a corporation), etc. Note that a computer casino may include use of an Internet and/or Intranet. The player **20** may interact with the computer casino over a data communication medium such as, *inter alia*, an Internet, an Intranet, a cable television network, a telephone network, a wide area network, a satellite network, a short wave radio network, or a combination thereof. The player **20** interacts with the house **30** by engaging in entering (e.g., wagering) **42** in the game of uncertain outcome **50**, and by the house **30** engaging in management **44** of the game of uncertain outcome **50**. The scope of "network" in the preceding list of data communication media include, *inter alia*, a system of interconnected nodes, two directly-connected nodes or locations, etc. Such engaging in management **44** of the game of uncertain outcome **50** may include establishing the game of uncertain outcome **50** and the rules thereof, executing the game of uncertain outcome **50**, exchanging money of the player **20** for chips for playing the game of uncertain outcome **50**, etc. The scope of the house includes, *inter alia*, employees of the house, independent contractors with the house, physical facilities of the house, etc.

The outside vendor **40** stands for N outside vendors of any type (e.g., vendors in a contractual relationship with the house; vendors exchanging relevant scrip, items, and/or cash

with the house; third-party vendors; combinations thereof; etc.), wherein $N \geq 0$ (i.e., the outside

vendor **40** stands for outside vendor V_i for $i = 1, 2, ..., N$). Additionally, a house vendor may

exist (e.g., if N=0). Each such outside vendor **40** sells items (e.g., goods, services, real property,

different scrip, etc.), and each such outside vendor **40** may have a relationship with the house **30**

as described *supra*. The outside vendor **40** may comprise any person, broker, merchant, business

entity, the house **30**, etc. As a special case, two or more outside vendors **40** may be such as to

not provide a same or essentially similar item or items in exchange for the relevant scrip. This

special case may serve as an inducement for outside vendors **40** to participate in the entrance-

exchange structure **10**, since such outside vendors **40** do not have to face competition against

other outside vendors within the framework of the entrance-exchange structure **10**.

The player **20** and outside vendor **40** exchange relevant scrip **26** for items **28** (e.g., goods,

services, real property, different scrip, etc.) at a scrip-to-items exchange rate $E^{S \rightarrow I}$ as described

supra. The outside vendor **40** and the house **30** may exchange relevant scrip **32** for cash **34** at a

scrip-to-cash exchange rate $E^{S \rightarrow C}$ as described *supra*. Other exchanges with and amongst outside

vendors (e.g., third-party vendors) may occur such as, *inter alia*, items for relevant scrip, relevant

scrip for items, etc.

An embodiment of the present invention is a cash-to-scrip exchange mechanism $E^{C \rightarrow S}$ in

which a player of the game of uncertain outcome **50** receives a takehome in relevant scrip, or

cash and relevant scrip, and in which the initial cash of the player **20** may be converted to

relevant scrip in the form of the limiting scrip takehome, or alternatively more or less than the

limiting scrip takehome.

If there are no outside vendors **40** (i.e., if N=0), then a house vendor must exist, as

explained *supra*, and FIG. 1 is replaced by FIG. 2 in accordance with embodiments of the present invention. In FIG. 2, the house **20** is also represented as the house vendor **41**, which demonstrates the dual role of house **20** as a provider of the game of uncertain outcome and as a vendor. Generally, the vendors of the present invention may comprise one or more outside vendor **40** of FIG. 1, the house vendor **41** of FIG. 2, or both.

Based on FIG. 1, FIG. 2, and on the examples discussed *supra*, various definitions and relationships of the present invention are as follows.

C = units of cash

S = units of relevant scrip

N = number of outside vendors, wherein $N \geq 0$.

V_i = i^{th} outside vendor ($i = 1, 2, ..., N$)

$E^{S \to I}_i$ = scrip-to-items exchange rate for outside vendor V_i (for items provided by outside vendor V_i in exchange for relevant scrip)

$E^{S \to I}_0$ = scrip-to-items exchange rate for house vendor (for items provided by a house vendor in exchange for relevant scrip)

$E^{S \to C}_i$ = scrip-to-cash exchange rate for outside vendor V_i (for cash provided by the house to an outside vendor V_i in exchange for relevant scrip)

$E^{S \to C}_0$ = scrip-to-cash exchange rate for house vendor (for cash provided by a house vendor in exchange for relevant scrip)

L = limiting scrip takehome (equal to $S/(1-C)$ if C/S if is constant)

U_i = fractional markup from wholesale to retail for outside vendor V_i

U_0 = fractional markup for the house vendor; e.g., fractional increase from bargained-for

price to market price or fractional increase from manufacturing items by house vendor

$\Phi_{P,i}$ = percent profit for the player **20** in relation to the outside vendor V_i

$\quad = 100x(LE^{S \to I}_i - 1)$

$\Phi_{P,0}$ = percent profit for the player **20** in relation to the house vendor

$\quad = 100x(LE^{S \to I}_0 - 1)$

$\Phi_{V,i}$ = percent profit for the outside vendor V_i

$\quad = 100x[(1+U_i) E^{S \to C}_i / E^{S \to I}_i - 1]$

$\Phi_{H,i}$ = percent profit for the house **30** in relation to the outside vendor V_i

$\quad = 100x[(1/(LE^{S \to C}_i) - 1]$

$\Phi_{H,0}$ = percent profit for the house **30** when functioning as a house vendor

$\quad = 100x[\{(1+U_0)/(LE^{S \to I}_0)\} - 1]$

As a first check on the preceding formulas for the outside vendor example, discussed *supra*, of L=1.25, $E^{S \to I}_i = 0.90$, $E^{S \to C}_i = 0.70$, $U_i = 2/3 = 0.667$, the percent profits are: $\Phi_{P,i} = 12.5\%$, $\Phi_{V,i} = 29.7\%$, $\Phi_{H,i} = 14.3\%$. As a second check on the preceding formulas for the house vendor example, discussed *supra*, of L=1.25, $E^{S \to I}_0 = 0.90$, $U_0 = 0.50$, the percent profits are: $\Phi_{P,0} = 12.5\%$ and $\Phi_{H,0} = 33.3\%$.

Based on the preceding definitions, the entrance-exchange structure **10** is profitable for the player **20** in relation to outside vendor V_i if $\Phi_{P,i} > 0$. The entrance-exchange structure **10** is profitable for the player **20** in relation to the house **30** if $\Phi_{P,0} > 0$. The entrance-exchange structure **10** is profitable for the outside vendor V_i if $\Phi_{V,i} > 0$. The entrance-exchange structure **10** is profitable for the house **30** in relation to the outside vendor V_i if $\Phi_{H,i} > 0$. The entrance-exchange structure **10** is profitable for the house **30** when the house **30** functions as a house

vendor V_i if $\Phi_{H,0} > 0$.

The game of uncertain outcome of the present invention is a "positive sum game" in relation to at least one outside vendors if the composite investment of the player, the house, and the at least one outside vendor increases. Thus the positive sum game is defined in relation to a given group of outside vendors such as: in relation to one specified outside vendor, in relation to all outside vendors, or in relation to a specified group of outside vendors. For example, if three outside vendors V_1, V_2, and V_3 exist, then the game of uncertain outcome is a positive sum game: 1) in relation to V_1 if the composite investment of the player, the house, and V_1 increases; 2) in relation to V_1 and V_2 if the composite investment of the player, the house, V_1, and V_2 increases; 3) in relation to V_1, V_2, and V_3 if the composite investment of the player, the house, V_1, V_2, and V_3 increases. An example of a positive sum game with one outside vendor, described *supra*, is shown in FIG. 3. The example of FIG. 3 illustrates a positive sum game because the composite Investment Capital of the player the house, and the outside vendor is increased (i.e., from $2550 to $3000).

FIG. 3 also illustrates the game of uncertain outcome relating to a "positive participant game" in relation to the outside vendor V_i. Generally, the positive participant is profitable to each participant, namely the player, the house, and at least one outside vendor. Thus the positive participant game is defined in relation to a given group of outside vendors such as: in relation to one specified outside vendor, in relation to all outside vendors, or in relation to a specified group of outside vendors. For example, if three outside vendors V_1, V_2, and V_3 exist, then the game of uncertain outcome is a positive participant game: 1) in relation to V_1 if the investment of each of the player, the house, and V_1 increases; 2) in relation to V_1 and V_2 if the investment of each of

the player, the house, V_1, and V_2 increases; 3) in relation to V_1, V_2, and V_3 if the investment of each of the player, the house, V_1, V_2, and V_3 increases. Mathematically, a positive participant game in relation to an outside vendor V_i is characterized by: $\Phi_{P,i} > 0$, $\Phi_{H,i} > 0$, and $\Phi_{V,i} > 0$. In FIG. 3, the positive participant game is demonstrated by the fact that the Ending Capital exceeds

5   the Investment Capital for each of the player, the house, and the outside vendor. Thus, the entrance-exchange structure **10** may be profitable for each of the player, the house **30**, and the outside vendor V_i.

A positive participant game is a special case of a positive sum game. Thus, a positive sum game may not be a positive participant game as illustrated in FIG. 4 in relation to an outside

10   vendor, but a positive participant game must be a positive sum game as illustrated in FIG. 3 in relation to the outside vendor. The example of FIG. 4, although a positive sum game, is not a positive participant game because the Ending Capital of the Outside Vendor ($875) does not exceed the Investment Capital of the Outside Vendor ($900) even though there was a 25% markup (i.e., $100 \times (1125-900)/900$) for the item(s) of the example of FIG. 4.

15   The scope of the present invention includes cases in which any two of $\Phi_{P,i}$, $\Phi_{H,i}$, and $\Phi_{V,i}$ are each positive such that a remaining one of $\Phi_{P,i}$, $\Phi_{H,i}$, and $\Phi_{V,i}$ is not positive. The scope of the present invention also includes cases in which any one of $\Phi_{P,i}$, $\Phi_{H,i}$, and $\Phi_{V,i}$ is positive such that a remaining two of $\Phi_{P,i}$, $\Phi_{H,i}$, and $\Phi_{V,i}$ are each not positive. The scope of the present invention further includes cases in which each of $\Phi_{P,i}$, $\Phi_{H,i}$, and $\Phi_{V,i}$ is positive.

20   The game of uncertain outcome of the present invention is a positive sum game in relation to the house vendor if the composite investment of the player and the house increases. An example with a house vendor, described *supra*, is a positive sum game as shown in FIG. 5.

The example of FIG. 5 illustrates a positive sum game because the composite Investment Capital is increased (i.e., from $1750 to $2125). FIG. 5 also illustrates the game of uncertain outcome relating to a "positive participant game" in relation to the house vendor. As stated *supra*, in a positive participant game, the game is profitable to the each participant, namely the player and the house vendor. Mathematically, a positive participant game with a house vendor is characterized by: $\Phi_{P,0} > 0$ and $\Phi_{H,0} > 0$. In FIG. 5, the positive participant game is demonstrated by the fact that the Ending Capital exceeds the Investment Capital for each of the player and the house vendor. Thus, the entrance-exchange structure 10 may be profitable for both the player and the house 30 when the house 30 functions as a house vendor.

As explained *supra*, a positive participant game is a special case of a positive sum game. Thus, a positive sum game may not be a positive participant game as illustrated in FIG. 6 in relation to a house vendor, but a positive participant game must be a positive sum game as illustrated in FIG. 5 in relation to the house vendor. The example of FIG. 6, although a positive sum game, is not a positive participant game, because the Ending Capital of the House Vendor ($1000) does not exceed the Investment Capital of the House Vendor ($1050) even though there was a 7.14% markup (i.e., 100x(1125-1050)/1050) for the item(s) of the example of FIG. 6.

The scope of the present invention includes cases in which any one of $\Phi_{P,0}$ and $\Phi_{H,0}$ is positive such that a remaining other of $\Phi_{P,0}$ and $\Phi_{H,0}$ is not positive. The scope of the present invention also includes cases in both $\Phi_{P,0}$ and $\Phi_{H,0}$ are positive

If the game of uncertain outcome is said to relate to a positive sum game, without reference to an outside vendor or a house vendor, then it is understood herein that the game of uncertain outcome is a positive sum game in relation to either an outside vendor or a house

vendor.

Conventional games of chance are generally either negative sum games or zero-sum games, in favor of the house **30** over the player **20**; e.g., the game is profitable for the house **30** and unprofitable for the player **20** for both negative sum games and zero-sum games. Note, however, that although the game of uncertain outcome of the present invention may be a positive-sum game as defined *supra*, the scope of the present invention also includes cases in which the game of uncertain outcome is a zero-sum game or a negative sum game.

Various special cases within the scope of the present invention include: $E^{S \to I}_i$ constant and thus independent of i, $E^{S \to C}_i$ is constant and thus independent of i, both $E^{S \to I}_i$ and $E^{S \to C}_i$ are constant and thus independent of i, $E^{S \to I}_i = 1$, $E^{S \to C}_i = 1$, $N = 0$, $N = 1$, and $N > 1$.

The entrance-exchange structure **10** may be configured such that the house **30** guarantees that the player **20** cannot lose more than P percent of the initial betting capital of the player **20**. This means that if the player **20** converts substantially all of the initial betting capital of the player **20** into relevant scrip by playing one or more games of chance, then the house **30** permits the player **20** to exchange said relevant scrip of the player **20** into (100-P) percent of the initial betting capital of the player **20**. Generally, P is any discrete integer, rational, or irrational value in a range of P<100 (e.g., P = 1, 2, ..., 50, 51, ..., or 99; P=15.40; P=35.6666666... , etc.). Thus P can be constrained to any range $P_1 < P < P_2$ subject to $P_2 < 100$ As an example, P can be constrained to 0<P<1, 0<P<2, ..., 0<P<50, 0<P<51, ..., or 0<P<100. As another example, P can be constrained to 10<P<20, 10<P<30, ..., or 0<P<90). As still another example, P can be constrained to 10.25<P<33.3333333.... Other examples include $0 \le P < 100$, $-30 \le P \le -10$, etc.

Alternatively, the entrance-exchange structure **10** may be configured such that the house

30 guarantees that the player **20** cannot come away from the betting with less F_1B units of cash and F_2B units of relevant scrip, wherein B is the initial betting capital of the player **20**, and F_1 and F_2 are real numbers such that $F_1 \geq 0$ and $F_2 \geq 0$. As an example, if B=$1000, F_1=.20, and F_2 = .40, then with an initial betting capital of $1000, the player **20** cannot come away from the betting with less than $200 in cash and 400v in relevant scrip.

The case of P=0 corresponds to a guarantee by the house **30** that the player **20** cannot lose any of the initial betting capital of the player **20**. The case of P<0 corresponds to the house **30** guaranteeing that the initial betting capital of player **20** must increase by at least -P percent as a result of playing the game of uncertain outcome. As an example if P= -10, then the house is guaranteeing that the initial betting capital of player **20** the player must increase by at least 10 percent as a result of playing the game of uncertain outcome. Note that for the case of P<0, one may introduce the variable Q=-P whereby Q>0.

While the embodiments described *supra* relate to a game of uncertain outcome, the scope of the present invention generally comprises an activity of uncertain outcome, wherein an "activity" is a set of rules used to classify, guide, affect or control, an action or series of actions. In conjunction with an "activity," the following definitions, explanations, and examples are relevant to the scope of the present invention. An "outcome" is a result or effect of the activity at a specific time or condition. A "game" is a particular embodiment of an activity, namely an activity with at least one potential outcome (e.g., a win by a player of the game). Example of games include games of chance, a games of skill, etc. A "game transaction" is any aspect or part of a game that has an outcome. A "subject" is anything that can be said to act or be acted upon. A "participant" is a subject acting, or being acted upon, in accordance with an activity.

"Entrance" in relation to an activity occurs when a subject becomes a participant in the activity. Examples of an entrance include, *inter alia*, a placing of a bet, a payment of a fee, an action such as an action that satisfies one or more criteria (e.g., running a race in which the runner must satisfy a criterion of weighing less than 150 pounds; completing an entry form). The action may

5 be a predetermined action, and the criteria may be predetermined criteria. "Entering" into an activity is performing an entrance into the activity. A "player" is a participant in a game, wherein the player may make one or more decisions potentially affecting at least one outcome of the game or entrance into the game. Even a decision to enter and watch may make one a player (e.g., in a lottery). A player is an example of a participant. A participant or subject generally, or a player in

10 particular, may comprise, *inter alia*, a person, an organization, etc. "Playing" a game is being a participant in the game and potentially affecting or having an interest in an outcome of the game. "Participating" by a subject is acting by the subject, or the subject being acted upon, in accordance with an activity. A "house" acts upon an activity, wherein "acts " comprises at least one of: measures, judges, enforces, controls, creates, manages, administrates and executes. Thus

15 the embodiments of the present invention for a game with one or more players, as described *infra*, are generalizable to an activity with one or more participants such that the one or more participants may enter the activity. "Takehome" is the actual amount of currency received from a game after subtracting all commissions, fees and payments owed by a player from entering and playing the game. An "expected net payoff" is an amount of currency equal to the probability of

20 a specific outcome of a game transaction, multiplied by the payment potentially received upon achieving that outcome, summed over all possible outcomes and game transactions, and subtracting all commissions, fees and payments owed from playing the game.

If the relevant scrip becomes sufficiently circulated within a "geographical area", such as, *inter alia*, within a "real geographical area" (e.g., a geographical area with conventional geographical boundaries such as all of the United States, North America, the state of New York, all of the United Nations countries, etc.) or within a "virtual geographical area" such as within a group of persons (e.g., within a corporation, an industry, an organization, a database or list such as a mailing list, etc.), then the relevant scrip may become generally valuable as a virtual currency and may be convertible to cash at a market scrip-cash exchange rate $R^{S \to C}$ such that each unit of relevant scrip converts to $R^{S \to C}$ dollars of cash. Conversely, cash may be convertible to relevant scrip at a market cash-scrip exchange rate $R^{C \to S}$ such that each dollar of cash converts to $R^{C \to S}$ units of relevant scrip. $R^{S \to C}$ and $R^{C \to S}$ is a function of the type of cash (e.g., American dollar, American cent, Japanese yen, English pound, etc.).

Theoretically, $R^{S \to C} \times R^{C \to S} = 1$. In practice, however, persons or businesses (e.g., banks) may perform such conversions at a profit for themselves such that $R^{S \to C} \times R^{C \to S} < 1$. Alternatively, $R^{S \to C} \times R^{C \to S} > 1$ is possible for various reasons including, *inter alia*: a time delay between a first location and a second location in synchronizing $R^{S \to C}$ and/or $R^{C \to S}$ to consistent values at the first location and the second location; labor or other valuable consideration built into $R^{S \to C}$ and/or $R^{C \to S}$; adding interest or other inducement(s) to motivate one to acquire a particular relevant scrip or other currency; etc.

The scope of a virtual currency system of the present invention includes multiple currencies denoted as K currencies $C_1, C_2, ..., C_K$ such that $K \geq 1$. If K=1 then only one currency C_1 is relevant. If $K \geq 2$ then at least two currencies are relevant. At least one of $C_1, C_2, ..., C_K$ may be a scrip currency (e.g., non-bettable scrip, absolutely bettable scrip, conditionally bettable scrip,

etc.). At least one of C_1, C_2, ..., C_K may be money. Money is defined herein as a cash (e.g.,

American dollar, American cent, Japanese yen, English pound, etc.) or a cash equivalent (e.g.,

gaming tokens, chips). Each such currency C_k (k=1, 2, ..., K) may be converted from the other

currencies in accordance with an exchange rate matrix [R] of order K such that

5 $$C_j = \Sigma_k (R_{jk}C_k)$$ (1)

wherein R_{jk} denote the matrix elements of [R] such that indices j and k each vary from 1 to K,

and wherein Σ_k denotes a summation over k from k=1 to k=K. The matrix elements R_{jk} denote

an exchange rate from currency C_k to currency C_j. Some currency exchanges may be forbidden

(i.e., $R_{jk} = 0$ for said forbidden currency exchanges). For example, the diagonal matrix elements

10 may each equal zero (i.e., $R_{kk} = 0$ for k= 1, 2, ..., K) if transformations of a currency into itself is

forbidden. As another example, if C_1 represents a bettable scrip and if C_2 represents a dollar

currency then the constraint of $R_{21}=0$ may be imposed to exclude the possibility of converting the

bettable scrip into the dollar currency. A simple example of the virtually currency system of the

present invention is the previously discussed $R^{S \to C}$ and $R^{C \to S}$ currency exchanges such that: K=2,

15 C_1 represents a cash currency, C_2 represents a scrip currency, $R_{11} = R_{22} = 0$, $R_{12} = R^{S \to C}$, and $R_{21} = R^{C \to S}$.

Since the relevant scrip may emerge into circulation from execution of the entrance-

exchange structure 10, the entrance-exchange structure 10 is a source or generator of the relevant

scrip or virtual currency. Alternatively, the relevant scrip may be generated by a source other

20 than from execution of the entrance-exchange structure 10. For example, the relevant scrip may

be manufactured by the house or by an outside vendor and circulated outside of the entrance-

exchange structure 10. Thus, the relevant scrip may be generated wholly or in part by the

entrance-exchange structure **10**.

     While particular embodiments of the present invention have been described herein for purposes of illustration, many modifications and changes will become apparent to those skilled in the art. Accordingly, the appended claims are intended to encompass all such modifications and

5   changes as fall within the true spirit and scope of this invention.